## **CLAIMS**

What is claimed is:

1. A method of reducing proliferation of or extracellular matrix production by a cell in a mammal comprising administering to the mammal a composition comprising a therapeutically effective amount of a zvegf4 antagonist in combination with a pharmaceutically acceptable delivery vehicle, wherein the zvegf4 antagonist is selected from the group consisting of:

anti-zvegf4 antibodies; inhibitory polynucleotides; inhibitors of zvegf4 activation; and mitogenically inactive, receptor-binding variants of zvegf4.

- 2. The method of claim 1 wherein proliferation of mesangial, epithelial, endothelial, smooth muscle, fibroblast, osteoblast, osteoblast, neuronal, stromal, stellate, or interstitial cells is reduced.
  - 3. The method of claim 1 wherein proliferation of tumor cells is reduced.
  - 4. The method of claim 3 wherein the tumor cells are prostate tumor cells.
- 5. The method of claim 1 wherein extracellular matrix production is reduced.
- 6. The method of claim 1 wherein the mammal is suffering from a fibroproliferative disorder of kidney.
- 7. The method of claim 1 wherein the mammal is suffering from a fibroproliferative disorder of liver.
- 8. The method of claim 1 wherein the mammal is suffering from a fibroproliferative disorder of bone.
- 9. The method of claim 1 wherein the zvegf4 antagonist is selected from the group consisting of anti-zvegf4 antibodies and inhibitory polynucleotides.

- 10. The method of claim 9 wherein the antagonist is an anti-zvegf4 antibody.
- 11. The method of claim 10 wherein the antibody is a monoclonal antibody.
- 12. The method of claim 9 wherein the antagonist is an inhibitory polynucleotide selected from the group consisting of antisense polynucleotides, ribozyme-encoding polynucleotides, and external guide sequence-encoding polynucleotides.
- 13. The method of claim 1 wherein the zvegf4 antagonist is administered in combination with an antagonist of a second growth factor.
- 14. The method of claim 11 wherein the second growth factor is EGF, a TGF- $\beta$ , or an FGF.
- 15. A method of reducing proliferation of or extracellular matrix production by a cell in a mammal, wherein the cell is an epithelial, endothelial, smooth muscle, fibroblast, osteoblast, neuronal, or stellate cell, the method comprising administering to the mammal a composition comprising a therapeutically effective amount of a zvegf4 antagonist in combination with a pharmaceutically acceptable delivery vehicle, wherein the zvegf4 antagonist is selected from the group consisting of:

anti-zvegf4 antibodies; inhibitory polynucleotides; inhibitors of zvegf4 activation; and mitogenically inactive, receptor-binding variants of zvegf4.

16. A method of reducing proliferation of or extracellular matrix production by prostate tumor cells in a mammal, the method comprising administering to the mammal a composition comprising a therapeutically effective amount of a zvegf4 antagonist in combination with a pharmaceutically acceptable delivery vehicle, wherein the zvegf4 antagonist is selected from the group consisting of:

anti-zvegf4 antibodies; inhibitory polynucleotides; inhibitors of zvegf4 activation; and mitogenically inactive, receptor-binding variants of zvegf4. 17. A method of reducing metastasis of prostate cancer cells to bone in a mammal, the method comprising administering to the mammal a composition comprising a therapeutically effective amount of a zvegf4 antagonist in combination with a pharmaceutically acceptable delivery vehicle, wherein the zvegf4 antagonist is selected from the group consisting of:

anti-zvegf4 antibodies; inhibitory polynucleotides; inhibitors of zvegf4 activation; and mitogenically inactive, receptor-binding variants of zvegf4.

- 18. A method of treating a fibroproliferative disorder in a mammal comprising administering to the mammal a composition comprising a therapeutically effective amount of a zvegf4 antagonist in combination with a pharmaceutically acceptable delivery vehicle, wherein the zvegf4 antagonist is selected from the group consisting of anti-zvegf4 antibodies, inhibitors of zvegf4 activation, mitogenically inactive receptor-binding zvegf4 variant polypeptides, and inhibitory polynucleotides.
- 19. The method of claim 18 wherein the fibroproliferative disorder is a fibroproliferative disorder of liver.
- 20. The method of claim 18 wherein the fibroproliferative disorder is a fibroproliferative disorder of kidney.
- 21. The method of claim 18 wherein the fibroproliferative disorder is a fibroproliferative disorder of bone.
- 22. The method of claim 18 wherein the antagonist is an anti-zvegf4 antibody.
- 23. The method of claim 22 wherein the antibody is a monoclonal antibody.
- 24. A method of reducing stellate cell activation in a mammal comprising administering to the mammal a composition comprising a zvegf4 antagonist in combination with a pharmaceutically acceptable delivery vehicle, wherein the zvegf4 antagonist is selected

from the group consisting of anti-zvegf4 antibodies, mitogenically inactive receptor-binding zvegf4 variant polypeptides, and inhibitory polynucleotides, in an amount sufficient to reduce stellate cell activation.

- 25. A method of treating a fibroproliferative disorder of kidney in a mammal comprising administering to the mammal a composition comprising a therapeutically effective amount of an antibody that specifically binds to an epitope of a protein as shown in SEQ ID NO:2 from amino acid residue 19 to amino acid residue 370, in combination with a pharmaceutically acceptable delivery vehicle.
- 26. The method of claim 25 wherein the antibody is a monoclonal antibody.
  - 27. The method of claim 25 wherein the antibody is a humanized antibody.
- 28. The method of claim 25 wherein the fibroproliferative disorder of kidney is glomerulonephritis, diabetic nephropathy, or lupus nephritis.
- 29. The method of claim 25 wherein the fibroproliferative disorder of kidney is glomerulonephritis.
- 30. The method of claim 25 wherein the antibody binds to an epitope of a protein as shown in SEQ ID NO:2 from amino acid residue 258 to amino acid residue 370.
- 31. The method of claim 30 wherein the fibroproliferative disorder of kidney is glomerulonephritis, diabetic nephropathy, or lupus nephritis.
- 32. The method of claim 30 wherein the fibroproliferative disorder of kidney is glomerulonephritis.